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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/043,902	01/11/2002	Zvi H. Meiksin	56137533-3	7219	
26453	7590 08/15/2003				
BAKER & MCKENZIE		•	EXAMINER		
805 THIRD AVENUE NEW YORK, NY 10022			NGUYEN, 1	NGUYEN, THUAN T	
		•	ART UNIT	PAPER NUMBER	
			2685	Ú	
			DATE MAILED: 08/15/2003	<u></u> 7	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No). (Applicant(s)			
• •		10/043,902		MEIKSIN ET AL.			
•	Office Action Summary	Examiner		Art Unit			
		THUAN T. NGU	IYFN	2685			
	The MAILING DATE of this communication app			L			
Period for Reply							
THE N - Exter after: - If the - If NO - Failur - Any re	ORTENED STATUTORY PERIOD FOR REPLINALING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	I36(a). In no event, hor ly within the statutory m will apply and will expire, cause the application	wever, may a reply be tir inimum of thirty (30) day e SIX (6) MONTHS from to become ABANDONE	nely filed /s will be considered timely. I the mailing date of this communication. ED (35 U.S.C. § 133).			
1)	Responsive to communication(s) filed on	·					
2a) <u></u>	This action is FINAL . 2b)⊠ Th	 nis action is non-	final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠ Claim(s) <u>76-95</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>76-95</u> is/are rejected.						
7)	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>11 January 2002</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
* 9	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 							
Attachment							
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>3</u>	4) [5) [3. 6) [y (PTO-413) Paper No(s) Patent Application (PTO-152)			
I.S. Patent and Tr PTO-326 (Rev		ction Summary		Part of Paper No. 4			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 76-95 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rider (U.S. Patent No. 5,264,795).

Regarding claims 76-95, for at least the unpatentable of independent claim 76, Rider discloses a communication system for communicating between a surface and an underground system, wherein a transmitter at the first system comprises amplifiers coupled to an antenna(s) for amplifying received signals before outputting the signals to the antenna 190 (Fig. 6 & Fig. 8 for internal circuitry of output circuit 170) and a series of capacitor are used for reducing impedance of the antenna (Fig. 11, and col. 9/lines 54 to col. 10/line 2); the output signals then are coupled by magnetic flux linkage or magnetic field 32 to another antenna of a second system, i.e., a receiving system 220 with antennas 501, 502,503 with a carrier signal addressed (see Fig. 5, and col. 8/line 50 to col. 9/line 53). Rider does not clearly point out to include "a modulator for modulating a single sideband carrier signal"; however, Rider inherently suggests including that modulator

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since a transmitter has means for modulating a signal and providing the modulated output carrier signal whereas the carrier signal regarding as a single sideband carrier signal for the system (col. 8/lines 4-47). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Rider's system with a well-known modulator in order to modulating a single sideband carrier signal of the transmitter as desired as inherently suggested by Rider. Other claims are unpatentable based at least on this reason of claim 76.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Mercer (US Patent 5,337,002) discloses locator device for underground communication related.

Flowerdew et al. (US Patent 6,134,420) disclose a system related to magnetic flux. Rorden et al. (US Patent 4,710,708) disclose a system using magnetic fields for determining location.

4. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9314, (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony Thuan Nguyen whose telephone number is (703) 308-5860. The examiner can normally be reached on Monday-Friday from 9:30 AM to 7:00 PM, with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (703) 305-4385.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Technology Center 2600 Customer Service Office** whose telephone number is (703) 306-0377.

TONÝT. NGUYEN
RATENT EXAMINER

Tony T. Nguyen Art Unit 2685 August 7, 2003